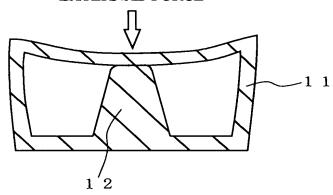


F I G. 1

EXTERNAL FORCE



F I G. 2

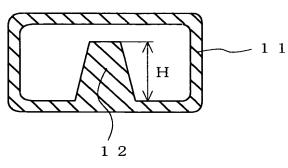


FIG. 3A

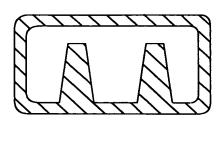


FIG. 3B

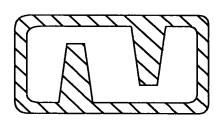


FIG. 3C

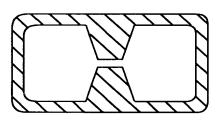


FIG. 3D

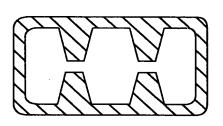


FIG. 3E

FIG. 4A

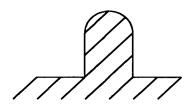


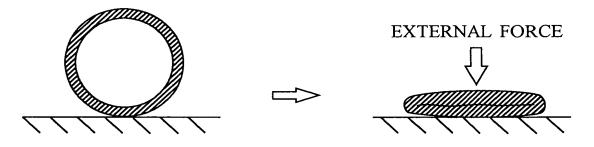
FIG. 4B



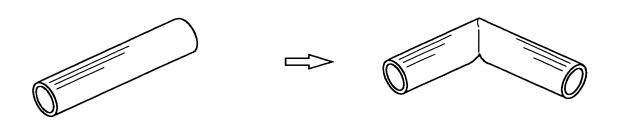
F I G. 4 C



F I G. 4 D



F I G. 5 A



F I G. 5 B